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PATENT ABSTRACTS OF JAPAN

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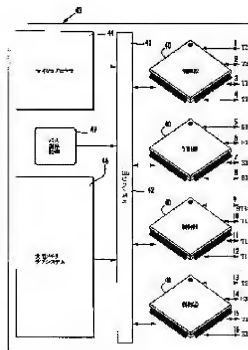
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(54) METHOD AND SYSTEM FOR TRANSFER CONTROL OF DATA BY UPDATING DESCRIPTOR IN DESCRIPTOR RING

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce the overhead regarding the use of descriptors and descriptor rings relating to respective frame data buffers by updating only the starting and ending descriptors in a descriptor chain for a desired host or controller.

SOLUTION: A network controller 40 updates a starting and an ending descriptor entry which are concerned to optimize the use of a bus when ≥ 3 frame data buffers are chained together. When the network controller 40 completes the process as to a buffer relating to chained frames, the possession of the ending descriptor is returned first and then the possession of the starting descriptor is returned. The flags and fields of the starting and ending descriptors in a column type chain of a fence post, i.e., a fence are all updated by the controller 40 and when they are completely sent or received, accurate information regarding the frames is provided.



LEGAL STATUS

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